

What is claimed is:

1. A grating having a groove cross section shape other than a laminar shape and a groove bottom part shaped as a flat form.

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2. The grating as claimed in claim 1, wherein a duty ratio of a groove width to a groove cycle of the grating is 0.5.

3. The grating as claimed in claim 1, wherein the groove cross section shape is a sinusoidal wave or a sawtooth.

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4. A negative grating manufactured by transfer from a grating having a groove cross section shape other than a laminar shape and a groove bottom part shaped as a flat form.

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5. A replica grating manufactured by transfer from a grating having a groove cross section shape other than a laminar shape and a groove bottom part shaped as a flat form.

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6. A method of manufacturing a negative grating, said comprising:

preparing an original grating having a groove cross section shape other than a laminar shape and a groove bottom part shaped as a flat form;

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bonding a negative substrate onto the original grating

with an adhesive; and

paring the negative substrate from the original grating after the adhesive is hardened.

5 7. A method of manufacturing a replica grating, said comprising:

preparing a negative grating manufactured from an original grating having a groove cross section shape other than a laminar shape and a groove top part shaped as a flat form;

10 bonding a replica substrate onto the negative grating with an adhesive; and

paring the replica substrate from the negative grating after the adhesive is hardened.

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